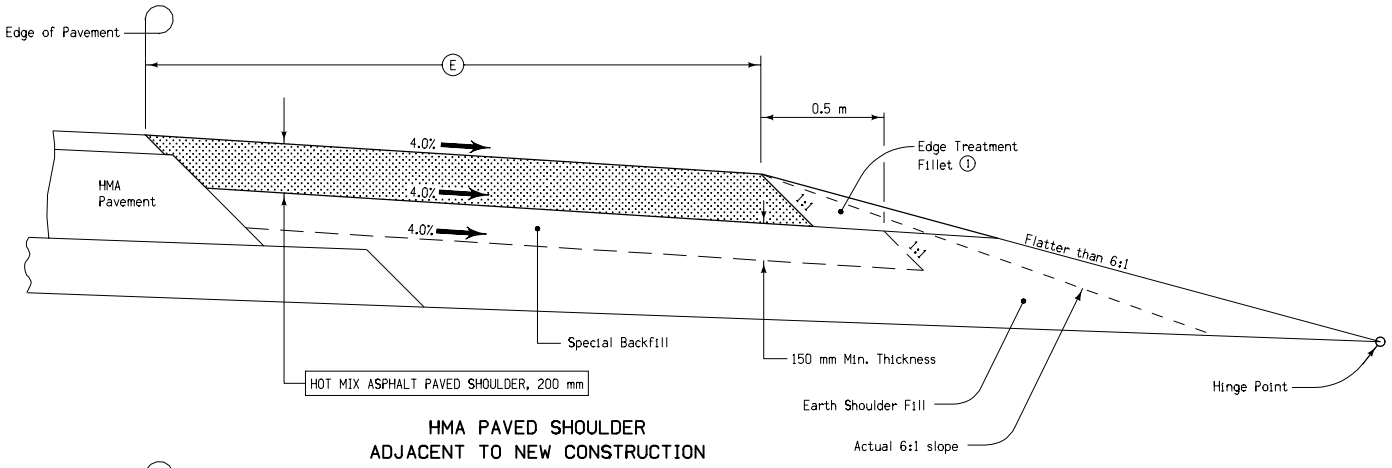
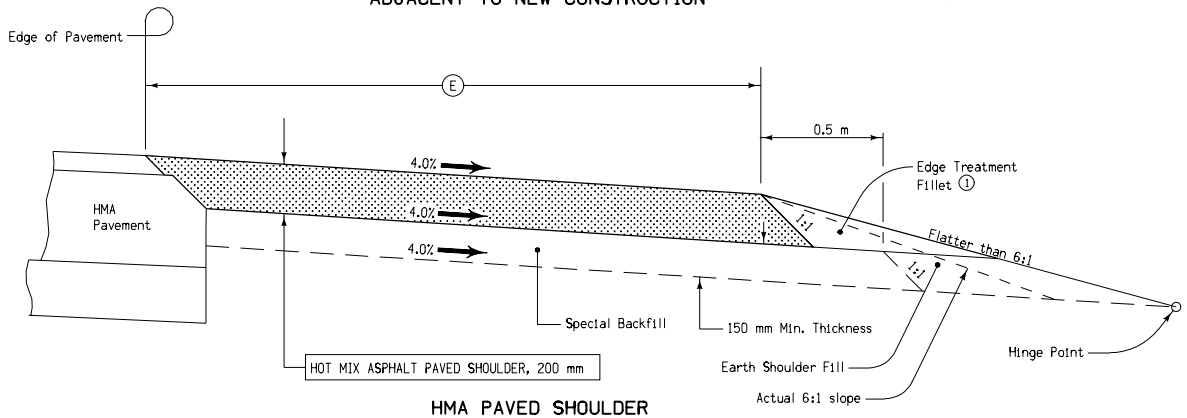


HMA PAVED SHOULDER
ADJACENT TO NEW CONSTRUCTION



HMA PAVED SHOULDER
ADJACENT TO RECONSTRUCTION

DESIGN QUANTITY TABLE 2				
HOT MIX ASPHALT 3				
E	SHOULDER SURFACE AREA	HOT MIX ASPHALT	ASPHALT BINDER	TACK COAT 4
m	m^2	Mg	Mg	L
1.2	120.0	55.80	3.35	29.66
1.8	180.0	83.70	5.02	41.66
2.4	240.0	111.60	6.70	53.66
3.0	300.0	139.50	8.37	65.66

GENERAL NOTES:

Details indicated hereon illustrate the general requirements for construction of a Hot Mix Asphalt Paved Shoulder.

Any necessary special shaping required in preparation of subgrade shall be considered incidental to other work. Any material removed due to special shaping, may be used as earth fill, Class 10 excavation, Class 13 excavation, or on other suitable areas on the project as approved by the Engineer.

The subgrade beneath Paved Shoulders shall be constructed in conformance with specifications for Natural Subgrade. "Special Backfill" material shall be paid for as specified in Section 2102. Payment shall be based on a uniform 150 millimeter thickness. The thickness may be extended at the Contractor's option with no compensation for additional material.

For rumble strip details, see Standard Road Plan RH-41D.

Rumble strip, special shaping, earth shoulder fill, and furnishing and finishing material for edge treatment fillet are incidental.

1. Refer to the appropriate Detail Drawing.
2. Quantities shown are for one shoulder per station. Rates of application may be adjusted at time of construction if so directed by the Engineer.
3. Quantities shown are based on a design density of 2325 kilograms per cubic meter for Hot Mix Asphalt with an asphalt content of 6.0% utilizing a 19 millimeter aggregate mix size, with 45% crushed particles, and no special aggregate frictional requirements. N_{ini} , N_{des} , and Nmax shall be 7, 68, and 104 respectively regardless of design ESALs for the pavement. Asphalt Binder PG58–28 shall be utilized with this mix.
4. Includes quantity for tack coating vertical face of adjacent pavement prior to placement of any base material. Tack coat estimated at one (1) application at 0.20 liters per square meter.

All dimensions given in millimeters unless noted.

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Iowa Department of Transportation
Highway Division

METRIC VERSION

STANDARD ROAD PLAN RJ-33

REVISION: Show flatter than 6:1 slope and actual 6:1 slope.

REVISION NO. 15

REVISION DATE 10-29-02

William J. Stein
APPROVED BY DESIGN METHODS ENGINEER

PAVED SHOULDER
200 mm HMA
(ADJACENT TO HMA PAVEMENT)